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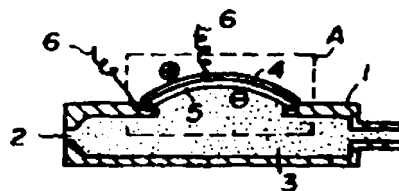
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APPLICANT : RICOH CO LTD;

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TITLE : DRIVING METHOD FOR
ELECTROSTRICTION VIBRATOR IN
INK JET RECORDER



ABSTRACT : PURPOSE: To enable the reduction in a voltage-withstand of an electrostriction vibrator and to enable the dense arrangement and miniaturization of heads, by a method wherein a bias displacement is applied to an electrostriction vibrator at a non-recording and waiting time, and the electrostriction vibrator is brought into a displacement action from a bias displacement state when a recording takes place.

CONSTITUTION: A bias voltage of $-E$ volt is applied to an electrostriction vibrator 4 at a non-recording and waiting time, and with this the electrostriction vibrator 4 is displaced so that an ink liquid chamber 3 is increased in a capacity. If, at a recording time, a pulse voltage, corresponding to a printing information signal, is applied to an input terminal of an electrostriction vibrator drive circuit, the electrostriction vibrator suddenly changes and is brought into a stat to allow the liquid chamber 3 to be reduced in the capacity, and ink drops are jetted through a nozzle hole 2.

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